

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) ~~Electronic~~ An electronic display and control device for a geodetic measuring device ~~which has having~~ a radiation source for emission of ~~a visible or a visible or an invisible~~ radiation beam for carrying out a measuring process, the electronic display and control device comprising:

~~comprising electronic~~ a display means for visual display of that
visually displays a measuring range acquired by ~~recording means~~ a recorder,

at least one position mark being provided by the display,

positioning of the at least one position mark fixing a measuring point
for three-dimensional surveying,

~~comprising input means for inputting an input device that inputs data~~
~~and for controlling controls the recording means recorder and the measuring process, process;~~

~~at least one position mark, preferably a crosshair, being provided by the~~
~~display means, and~~

~~the fixing of a measuring point for three-dimensional surveying being~~
~~determined by positioning of the position mark,~~

~~characterized in that~~

~~alignment means are present which an alignment device that permit permits~~
variable alignment of ~~the emission~~ an emission direction of the radiation beam relative to ~~the~~
~~orientation~~ an orientation of the ~~recording means recorder,~~ the alignment means device and
~~recording the recorder means~~ being designed and arranged so that the radiation beam is
coordinated at least partly with at least one optical component of the ~~recording means,~~ in
~~particular is emitted by means recorder.~~

2. (Currently Amended) ~~Electronic-~~The electronic display and control device according to ~~Claim 1, characterized in that~~ claim 1, wherein the alignment ~~means are designed so that the alignment of device aligns~~ the radiation beam ~~is effected in such a way that, in the display of the acquired measuring range, so that~~ the position of the radiation beam ~~is made to coincide~~ coincides with the position mark, ~~so that allowing~~ the radiation beam is ~~utilized to be utilized~~ for carrying out the measuring process.

3. (Currently Amended) ~~Electronic-~~The electronic display and control device according to ~~Claim 1, characterized in that~~ claim 1, wherein the alignment ~~means have device~~ comprises at least one ~~of the following means~~

- servo elements for two-dimensional movement of the radiation source,
- a rotatable and/or tiltable reflecting surface ,
- ~~a, preferably continuously,~~ a deformable reflecting surface, and
- a transmittive double wedge rotatable relative to one another.

4. (Currently Amended) ~~Electronic-~~The electronic display and control device according to ~~Claim 1, characterized in that a~~ claim 1, further comprising a calibration control device ~~is present which has having~~ an image sensor ~~which that~~ detects the emission direction of the radiation beam ~~so that detection of the emission direction of the radiation beam independently of the recording means takes place recorder.~~

5. (Currently Amended) ~~Electronic-~~The electronic display and control device according to ~~Claim 1, characterized in that~~ claim 1, wherein the display ~~means are designed so that display of displays~~ the radiation beam in the measuring range ~~is effected by by~~ displaying at least one pixel ~~displayed~~ in a distinguishable manner, ~~which is effected either the~~ at least one pixel being displayed in a distinguishable manner:

- by calculation of the position of the radiation beam in the measuring range and electronic enhancement of the pixel coordinated with this ~~position or~~ position or

———by direct optical imaging of the radiation within the ~~recording means~~
recorder.

6. (Currently Amended) ~~Electronic~~ The electronic display and control device according to ~~Claim 1, characterized in that~~ claim 1, wherein the position mark ~~can be is~~ positioned by the input ~~means device~~ within the ~~visual display, preferably in discrete steps, in particular pixel by pixel display.~~

7. (Currently Amended) ~~Electronic~~ The electronic display and control device according to ~~Claim 1, characterized in that the input means and/or display means are designed so that, by~~ claim 1, wherein the positioning of the position mark, mark initiates at least a part of the measuring ~~process. process is initiated, in particular~~

~~the control of the recording means and/or~~

~~the control of the alignment means is effected.~~

8. (Currently Amended) ~~Electronic~~ The electronic display and control device according to ~~Claim 1, characterized in that~~ claim 1, wherein the visual display of the ~~at least a portion of the~~ acquired measuring range ~~or of parts of the measuring range can be made smaller, can be made larger and/or can be changed in its resolution is altered~~ by the ~~recording means and/ recorder or display means, in particular by a variation of the, preferably electronic, assignment of the data of pixels of the recording means to pixels of the display means.~~

9. (Currently Amended) ~~Electronic~~ The electronic display and control device according to ~~Claim 1, characterized in that~~ claim 1, wherein the ~~recording means comprise at least one of the following means~~ recorder comprises of at least one of:

———~~CCD~~ a CCD camera,

———~~CMOS~~ a CMOS camera,

———~~video~~ a video camera,

- ~~—— low light~~ a low light level amplifier,
- ~~—— thermal~~ a thermal imaging camera,
- ~~—— spectrally~~ a spectrally selective detector, and
- ~~—— spectral~~ a spectral filter.

10. (Currently Amended) ~~Electronic~~ The electronic display and control device according to ~~Claim 1, characterized in that claim 1, wherein the recording means have recorder comprises~~ an autofocusing system) system which is part of the objective or is positioned outside the objective in the beam path.

11. (Currently Amended) ~~Electronic~~ The electronic display and control device according to ~~Claim 1, characterized in that claim 1, wherein the display means comprise~~ comprises at least one ~~of~~ of the following means

- ~~—— LCD~~ a LCD display,
- ~~—— cathode~~ a cathode ray tube,
- ~~—— flat~~ a flat screen,
- ~~—— interface~~ an interface to communication ~~networks,~~ networks, and
- ~~—— electronic~~ an electronic computer with a monitor, ~~preferably portable laptop.~~

12. (Currently Amended) ~~Electronic~~ The electronic display and control device according to ~~Claim 1, characterized in that claim 1, wherein the input means comprise device~~ comprises at least one ~~of~~ of the following means

- ~~—— touch sensitive~~ a touch-sensitive screen,
- ~~—— touch sensitive~~ a touch-sensitive input field,
- ~~—— keyboard~~ a keyboard field,
- ~~—— joystick,~~ a joystick,
- ~~—— trackball,~~ a trackball,

~~computer~~ a computer mouse,
~~interface~~ an interface to communication ~~networks,~~ networks, and
~~electronic~~ an electronic computer with input device, ~~preferably a~~
~~portable laptop.~~

13. (Currently Amended) ~~Electronic~~ The electronic display and control device according to ~~Claim 1,~~ characterized in that claim 1, wherein the ~~electronic display means and~~ the input ~~means device~~ are combined in one component, ~~component, preferably a touch-sensitive flat screen.~~

14. (Currently Amended) ~~Electronic~~ The electronic display and control device according to ~~Claim 1,~~ characterized in that claim 1, wherein the ~~recording means recorder and~~ the alignment means device are in the form of an independent module and are connected to the other components via a wire connection or a radio link.

15. (Currently Amended) ~~Geodetic~~ A geodetic measuring ~~device, device,~~ comprising:
~~comprising~~ a radiation source for emission of a visible or an invisible radiation beam for carrying out a measuring process,
~~comprising~~ a receiving device for acquiring radiation of the reflected radiation beam and converting this radiation into signals,
~~comprising electronic~~ an electronic evaluation ~~means for evaluating device that evaluates~~ the signals, and
~~comprising an the~~ electronic display and control device according to ~~Claim 1.~~ claim 1.

16. (Currently Amended) ~~Geodetic~~ The geodetic measuring device according to ~~Claim 15,~~ characterized by claim 15, further comprising an ~~orientation means for orienting device that orients~~ the ~~recording means recorder~~ relative to a measuring range.

17. (Currently Amended) ~~Geodetic~~ The geodetic measuring device according to ~~Claim 16, characterized by further claim 16, further comprising an input means device for~~ controlling the orientation ~~means device~~.

18. (Currently Amended) ~~Geodetic~~ The geodetic measuring device according to ~~Claim 15, characterized in that the electronic display and control device is designed so that,~~ by claim 15, wherein the positioning of the position mark, the determination of determines at least one parameter of the measuring ~~process, in particular~~ process, wherein the at least one parameter is:

- ~~the~~ fixing of a measuring point for three-dimensional surveying,
- ~~the control of the recording means recorder,~~
- ~~the control of the alignment means and/or device or~~
- ~~the control of the orientation means, is effected device.~~

19. (Currently Amended) ~~Geodetic~~ The geodetic measuring device according to ~~Claim 16, characterized in that claim 16, wherein the radiation source and the receiving~~ device are arranged on a movable support ~~element~~ element.

20. (Currently Amended) ~~Geodetic~~ The geodetic measuring device according to ~~Claim 16, characterized in that claim 16, wherein the radiation source, receiving the receiving~~ device and ~~alignment the alignment means device are formed and arranged in such a way that~~ both so that radiation emitted by the radiation source and radiation ~~to be received by the~~ receiving device are guided via the alignment ~~devicemeans, in particular a transmittive double~~ wedge rotatable relative to one another.

21. (Currently Amended) ~~Geodetic~~ The geodetic measuring device according to ~~Claim 16, characterized in that claim 16, wherein the orientation means have device~~ comprises a device, in particular attachable device, device for alignment of the geodetic measuring device relative to a reference point, ~~preferably a triangulation point, in particular in~~

~~association with a movement of whereby the recording means recorder moves~~ from the orientation necessary for acquisition of the measuring range into an orientation for detection of the reference point.

22. (Currently Amended) ~~Geodetic~~ The geodetic measuring device according to ~~Claim 15, characterized in that claim 15, wherein at least one of the input means and/or device and the display means~~ are mounted so as to be movable independently of an alignment of the geodetic measuring ~~device, device, in particular pivotable about a horizontal axis.~~

23. (Currently Amended) ~~Module A~~ module component for a geodetic surveying system, comprising

——— ~~at least one of an integrated input means device and/or display means device~~ of a geodetic measuring device according to ~~Claim 15, claim 15,~~ and

——— means for establishing a wire connection or a radio link to the geodetic measuring device and optionally to at least one further geodetic measuring device.

24. (Currently Amended) ~~Geodetic A geodetic~~ surveying system,
——— comprising at least two geodetic measuring devices according to ~~Claim 15 and claim 15 and~~

——— ~~comprising~~ at least one module component comprising:

——— ~~at least one of integrated input means device and/or and display means device~~ of the geodetic measuring device, and

——— means for establishing a wire connection or a radio link to the geodetic measuring device and optionally to at least one further geodetic measuring ~~device, device,~~

~~wherein the at least one module component being in is in~~ the form of at least one of common input means and/or device and common display means for the at least two geodetic measuring devices, ~~optionally with alternate use thereof.~~

25. (New) The electronic display and control device according to claim 1, wherein the at least one position mark is a crosshair.
26. (New) The electronic display and control device according to claim 3, wherein the deformable reflecting surface is continuously deformable.
27. (New) The electronic display and control device according to claim 6, wherein the position mark is positioned by the input device within the display pixel by pixel.
28. (New) The electronic display and control device according to claim 6, wherein the position mark is positioned by the input device within the display in discrete steps.
29. (New) The electronic display and control device according to claim 7, wherein the part of the measuring process initiated comprises at least one of control of the recorder and control of the alignment device.
30. (New) The electronic display and control device according to claim 8, wherein the portion of the acquired measuring range is altered by variation of assignment of data of pixels of the recorder to pixels of the display.
31. (New) The electronic display and control device according to claim 30, wherein the variation of assignment of data of pixels of the recorder to pixels of the display is electronic.
32. (New) The electronic display and control device according to claim 11, wherein the electronic computer with monitor is a portable laptop.
33. (New) The electronic display and control device according to claim 12, wherein the electronic computer with input device is a portable laptop.
34. (New) The electronic display and control device according to claim 13, wherein the component is a touch-sensitive flat screen.

35. (New) The electronic display and control device according to claim 20, wherein the radiation source, the receiving device, and the alignment device are arranged to form a transmittive double wedge rotatable relative to one another.

36. (New) The electronic display and control device according to claim 21, wherein the reference point is a triangulation point.

37. (New) The electronic display and control device according to claim 21, wherein the device for alignment of the geodetic measuring device is an attachable device.

38. (New) The electronic display and control device according to claim 22, wherein at least one of the input device and the display are mounted so as to be pivotable about a horizontal axis.